Leica Geosystems Catalogue

The right tools for any construction site

- when it has to be **right**

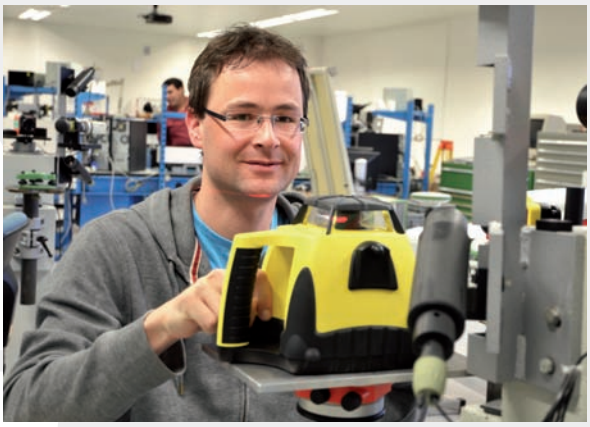
Leica Geosystems

Swiss Technology
Quality builds trust

Dedicated to Innovative Technology and Quality

Leica Geosystems is one of the world's leading providers of modern surveying solutions. Quality is not only our aspiration but our obligation. It is the result of over 200 years of tradition and of constant innovations based on intensive research.
To ensure our instruments meet the highest precision and quality demands, we manufacture them in state-of-the-art facilities around the world, where Swiss technology is combined with exceptional craftsmanship.

Swiss Technology
by Leica Geosystems



Leica Geosystems Construction Tools - Robust and Reliable

Leica Geosystems construction tools are renowned for being robust and dependable on all construction sites; they provide the best reliability over many years, even in extreme environments. All Leica Geosystems construction tools undergo stringent mechanical and environmental tests before they leave our factories. Your benefit – Leica Geosystems construction tools provide you with the confidence you expect from your instrument.

2 Years Warranty
When registered within 8 weeks after purchase

3 Years Warranty
When registered within 8 weeks after purchase

5 Years Warranty
2 years standard
+3 years extension available on request*

Extended Warranty

For decades millions of users have placed their trust in Leica Geosystems products. The basis for this success is not only our power of innovation but also the great emphasis we place on the quality and reliability of our devices. Since May 2008, Leica Geosystems offers a one year extended warranty period on many instruments. All you have to do is simply register your instrument within 8 weeks from purchasing at www.leica-geosystems.com/registration.

What are the conditions to be fulfilled in order to obtain the warranty?

- The end customer must register the product on our website at www.leica-geosystems.com/registration within 8 weeks of the date of purchase, otherwise the standard warranty period applies.
- The warranty relates to the date of purchase by the end customer (after 1.1.2008).
- An extended warranty is currently offered for the Leica DISTO™ Family, Rugby 50/55, Rugby 260/270SG & 280DG, Rugby 320SG & 410/420DG, Piper 100/200, the Roteo Family and the NA700 series.

For more detailed information please refer to our homepage www.leica-geosystems.com

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Level Overview

Extreme robustness, high measurement precision and an extremely competitive price. All this makes the difference! Moreover, Leica Geosystems levels are so easy to use. No need to spend time in training.

Our ergonomic optics are the finest optics in the world. Banish tired eyes forever and ensure you're really aiming accurately at the target, even in extreme light conditions. Leica Geosystems levels can be configured to suit your work and preferences. Horizontal angles can be read in either degrees or gons, with some levels.

Just in case – some of our Leica Geosystems levels are shock resistant. So the systems can continue to be used, even after a fall.

APPLICATIONS	Jogger Series	Runner 20/24	NA720	NA724	NA728	NA730	NA2/ NAK2
Daily levelling tasks: Site foremen, carpenters, construction companies, landscaping	X	X	X	X	X	X	-
Daily levelling tasks: with high demand for product robustness e.g. for construction of roads, railways and buildings	-	-	X	X	X	X	-
High accuracy levelling: even for building or engineering surveyors	-	-	-	-	X	X	X
Precision levelling: even for settlement determinations on building, deformation measurement and monitoring bridges	-	-	-	-	-	-	X
FEATURES							
Water resistant	X	X	X	X	X	X	X
Waterproof (immersion) & dustproof	-	-	X	X	X	X	-
Shock resistant	-	-	X	X	X	X	-
Rough/fine focus	-	-	-	-	X	X	-
Parallel-Plate micrometer for precise levelling (optional)	-	-	-	-	-	-	X
Warranty	1 year	1 year	2 years + 1	2 years + 1	2 years + 1	2 years + 1	3 years

Levelling can be so easy with digital levels from Leica Geosystems. Push the button and heights, height differences and distances are automatically displayed. There will be no more misreading and interpretation errors in reading the staff.

It is also possible to use it as an optical level. But compared to a conventional level, the digital levels effortless, fast measurements could save your valuable time and reduce errors. Our digital levels even include additional error reducing functions such as built-in tilt sensors, preventing the system from measuring if the user operates outside the compensator range.

For further information please visit our homepage www.leica-geosystems.com.

APPLICATIONS	Sprinter 50	Sprinter 150	Sprinter 150M	Sprinter 250M
Error-free levelling for all construction applications, e.g. for construction off-road, railways and buildings	X	X	X	X
Error-free levelling for all construction applications with demand for data storage and transfer,e.g road & building construction	-	-	X	X
High accuracy levelling in all application areas, e.g. road & building construction, civil engineering,topography and cadastral	-	-	-	X
High accuracy levelling in all areas with demand for data storage and transfer,e.g architecture and engineers survey	-	-	-	X
FEATURES				
Optical staff reading	X	X	X	X
Automatic staff reading	X	X	X	X
Inverse staff reading	X	X	X	X
Automatic calculation of heights & distances	X	X	X	X
Delta Height	-	X	X	X
Multilingual function	-	X	X	X
Tracking	-	X	X	X
Cut & Fill and monitoring	-	-	X	X
Line Levelling	-	-	X	X
Data storage & USB	-	-	X	X
Warranty	1 year	2 years	2 years	2 years

Leica Jogger Series

1

Fit for work

The Jogger Series are economical levels for any construction team – carpenters, supervisors, engineers & architects etc. These job site levels are always ready for fast setting up on tripod. Coarse aiming at target with large peep sight is easy & quick, increasing your levelling work efficiency. They are easy to use and reliable in measurement for all levelling tasks around the job site.

Leica Jogger 20
Automatic level in carry case, with 20x magn.
1 **Order No: 762 263**

Leica Jogger 24
Automatic level in carry case, with 24x magn.
Order No: 762 264

Leica Jogger 28
Automatic level in carry case, with 28x magn.
Order No: 783 739

Leica Jogger 32
Automatic level in carry case, with 32x magn.
Order No: 783 740

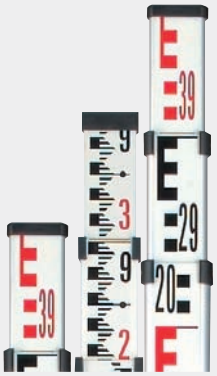
CTP106 Aluminium tripod
Light-weight with shoulder strap & side clamp screws
2 **Order No: 767 712**

CTP104D Dome-head aluminium tripod
with shoulder strap and fast clamps, medium weight. Suitable for levels.
3 **Order No: 767 711**

CR13T, Telescopic Level Staff
CR series fiberglass rod 13 ft tenths
Order No: 8201 532

2

3



FEATURES	Jogger 20	Jogger 24	Jogger 28	Jogger 32
Magnification	20x	24x	28x	32x
Angle Measurement	360°	360°	360°	360°
Standard deviation (per km double-run)	0.1 inch/2.5 mm	0.08 inch/2.0 mm	0.08 inch/2.0 mm	0.08 inch/2.0 mm
Shortest focusing distance	< 3.3 ft/1 m	< 3.3 ft/1 m	< 3.3 ft/1 m	< 3.3 ft/1 m
Dust/ Water Protection	IP54	IP54	IP54	IP54
Working Temperature	-4°F to +104°F/ -20°C to +40°C	-4°F to +104°F/ -20°C to +40°C	-4°F to +104°F/ -20°C to +40°C	-4°F to +104°F/ -20°C to +40°C
Weight	3.3 lbs/1.5 kg	3.3 lbs/1.5 kg	3.3 lbs/1.5 kg	3.3 lbs/1.5 kg

Leica Runner 20/24

1

Tough and Accurate

Leica Runner 20 and 24 are two robust and value-priced, automatic builder's levels. Designed to work hard on the job site, they are quick to set up, simple to use and very reliable. The automatic compensator and the quality optics speed up measurements on site and increase accuracy.

Runner is the ideal construction level for site foremen, engineers, architects, landscape gardeners and other professionals.

Runner 20, Automatic Level
With 20x magnification, Standard deviation per km 2.5 mm (double-run levelling)

1 **Order No: 727 585**

Runner 24, Automatic Level
With 24x magnification Standard deviation per km 2.0 mm (double-run levelling)

Order No: 727 586

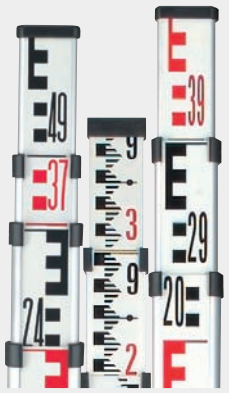
CTP104 Aluminium Tripod
Medium duty aluminium tripod with carrying strap and fast clamps
(CTP104D Dome-Head - Order No: 767 711)

2 **Order No: 767 710**

CR16T, Telescopic Level Staff
CR series fiberglass rod 16 ft tenths

Order No: 8201 534

2



FEATURES	Runner 20	Runner 24
Magnification	20x	24x
Angle Measurement	360°	360°
Standard deviation (per km double-run)	0.1 inch/2.5 mm	0.08 inch/2.0 mm
Dust/ Water Protection	IP55	IP55
Working Temperature	-4°F to +122°F/-20°C to +50°C	-4°F to +122°F/-20°C to +50°C
Weight	4.4 lbs/2.0 kg	4.4 lbs/2.0 kg
Warranty	1 year	1 year

Leica NA700 Levels

Built for Builders, Engineers and Surveyors

Nothing stops a Leica NA700 level. A short drop onto the ground, a fall into water, vibration from heavy machinery – with a Leica NA700 level you just carry on working. And, the 'best in class' optics enable you to always work as precisely as possible, even in twilight. The NA728 and NA730 have a rough/ fine focus drive making your work even easier. What does this add up to? Reduced work downtime, translating into higher productivity, reliability and accuracy at an extremely reasonable price.

NA720, Automatic Level
20x telescopic magnification. The automatic level for all applications on the construction site

1 **Order No: 641 982**

NA724, Automatic Level
24x telescopic magnification for improved accuracy. Reliability and robustness for the demanding construction user

Order No: 641 983

NA728, Automatic Level
28x telescopic magnification, precision compensator. The all-rounder. For building or engineering surveys

Order No: 641 984

NA730, Automatic Level
30x telescopic magnification. The most precise. Meets the highest standards in construction, engineering and topographic surveys

Order No: 641 985

CTP104 Aluminium Tripod
Medium duty aluminium tripod with carrying strap and fast clamps
(CTP104D Dome-Head - Order No: 767 711)

2 **Order No: 767 710**

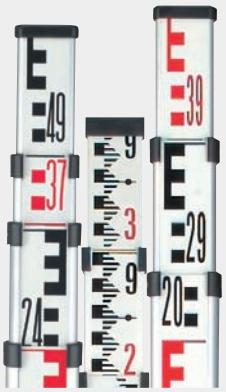
CR16T, Telescopic Level Staff
CR series fiberglass rod 16 ft tenths

Order No: 8201 534

1

3 Years Warranty
When registered within 8 weeks after purchase

2



FEATURES	NA720	NA724	NA728	NA730
Magnification	20x	24x	28x	30x
Angle Measurement	360°/400gon	360°/400gon	360°/400gon	360°/400gon
Standard deviation (per km double-run)	0.1 inch/2.5 mm	0.08 inch/2.0 mm	0.06 inch/1.5 mm	0.04 inch/1.0 mm
Dust/ Water Protection	IP57	IP57	IP57	IP57
Working Temperature	-4°F to +122°F -20°C to +50°C	-4°F to +122°F -20°C to +50°C	-4°F to +122°F -20°C to +50°C	-4°F to +122°F -20°C to +50°C
Weight	3.5 lbs/1.6 kg	3.5 lbs/1.6 kg	3.75 lbs/1.7 kg	3.75 lbs/1.7 kg
Warranty	2 years / 3 years when registerd within 8 weeks after purchase			

Leica NA2/NAK2

The classic Level from Leica Geosystems

The Leica NA2 universal automatic level meets all requirements regarding precision, convenience and reliability. It was designed by surveyors and development engineers with years of experience, that know what a field instrument has to be able to do. The NA2 soon pays for itself, because it can be used for all types of surveying jobs; on building sites for routine levelling, in engineering projects and for geodetic control at all levels of accuracy.

1

3 Years Warranty

NA2, Universal Automatic Level
Magnification: 32x
Standard deviation per km 0.7 mm (double-run levelling, depending on staff and technique)

1 **Order No: 352 036**

2

NAK2, Universal Automatic Level (400gon)
Magnification: 32x
Standard deviation per km 0.7 mm (double-run levelling, depending on staff and technique)

Order No: 352 039

NAK2, Universal Automatic Level (360°)
Same as before, but horizontal circle 360°, optical scale interval 10‘, reading by estimation 1‘

Order No: 352 038

3

GPM3, Parallel-Plate Micrometer
In container, measuring range 10 mm

2 **Order No: 356 121**

GOA2, Autocollimation Eyepiece
For all instruments

3 **Order No: 199 899**

4

GFZ3, Diagonal Eyepiece
Allows steep sights

4 **Order No: 734 514**

5

FOK73, 40x Eyepiece
For NA2/NAK2, exchangeable against standard eyepiece

5 **Order No: 346 475**

FEATURES	NA2	NAK2
Magnification	32x	standard: 32x (FOK73 eyepiece (optional): 40x)
Angle Measurement	-	360°/400gon
Standard deviation (per km double-run)	0.027 inch (0.7 mm)/km (0.012 inch/0.3 mm with parallel-plate micrometer)	0.027 inch (0.7 mm)/km (0.012 inch/0.3 mm with parallel-plate micrometer)
Dust/ Water Protection	IP53	IP53
Working Temperature	-4°F to +122°F/-20°C to +50°C	-4°F to +122°F/-20°C to +50°C
Weight	5.3 lbs/2.4 kg	5.3 lbs/2.4 kg
Warranty	3 years	3 years

Leica Sprinter

Go ahead....
Push the button

Sprinter 50

The Leica Sprinter 50 is the perfect levelling tool for daily tasks and basic work on the construction site. The user just aims, focuses the staff like an optical level, and measures by pressing one single button. The data is displayed almost instantly. Misreadings are eliminated, and error reducing functions, such as the tilt sensor, prevent the system from measuring if the user operates outside the compensator range.

Sprinter 150 / 150M / 250M

For more complex construction tasks, the Sprinter 150 automatically determines delta height and reduced level. The Sprinter 150M and 250M, on the other hand, are the perfect tools for advanced construction levelling tasks. They can store up to 1'000 measurements, and the user can download and transfer these for further calculations to a PC with Excel® easier than ever before via USB. The Sprinter's onboard software, with functionalities such as Line Levelling and Cut & Fill as well as monitoring, facilitates all levelling jobs significantly.
And best of all - it's available in your language!

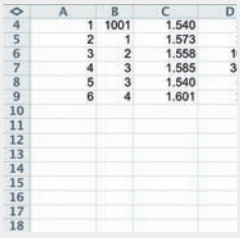
Aim and Focus

Push the button

Read

Calculate

Memorise



Download

Sprinter 50
Electronic level, standard deviation 2.0 mm, includes container, strap, adjustment tools, user manual, leaflet, 4 AA batteries
US Version Order No: 764 686
Order No: 762 628

Sprinter 150
Electronic level, standard deviation 1.5 mm, includes container, strap, adjustment tools, user manual, 4 AA batteries
Order No: 762 629

Sprinter 150M
Electronic level with internal memory, standard deviation 1.5 mm, includes container, strap, adjustment tools, user manual, 4 AA batteries, USB cable, CD
Order No: 762 630

Sprinter 250M
Electronic level with internal memory, standard deviation 1.0 mm, includes container, strap, adjustment tools, user manual, 4 AA batteries, USB cable, CD
Order No: 762 631

GSS 111, Dual Face Telescopic Levelling Staff
5 m, 4 sections, Sprinter barcode/E-Scale cm-graduation, with circular bubble, in transport bag (Std. version)
1 **Order No: 741 882**

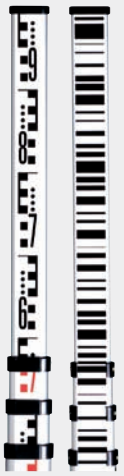
GSS111-1 Dual Face Telescopic Leveling Staff
16.4 ft, 4 sections, SPRINTER barcode / ft-graduation
Order No: 741 883

GSS113, Fibreglass dual face staff
3 m, 1 section, Sprinter barcode/E-scale cmgraduation, with circular bubble, transport bag
Order No: 764 452

CTP104 Aluminium Tripod
Medium duty aluminium tripod with carrying strap and fast clamps
(CTP104D Dome-Head - Order No: 767 711)
2 **Order No: 767 710**

CTP106 Aluminium tripod
Light-weight with shoulder strap & side clamp screws
3 **Order No: 767 712**

1



2

3

Multilingual Function

The Sprinter 150/150M/250M are featured with multiple languages onboard. This allows the user to choose the preferred language.

Technical Data	Sprinter 50	Sprinter 150/150M	Sprinter 250M
Height accuracies	Standard deviation height measurement per 1 km double run (ISO 17123-2)		
-Electronic measurement*	0.08 inch/2.0 mm	0.06 inch/1.5 mm	0.04/0.027* inch (1.0/0.7* mm)
-Optical measurement	With standard aluminum E-scale/Numeral staff: 0.1 inch/2.5 mm		
-Single staff reading	Standard Deviation: 0.024 inch/0.6 mm (electronic) and 0.047 inch/1.2 mm (optical) at 100 ft/30 m		
Distance accuracies	Std. deviation distance meas. 0.4 in/10 mm for D < 10.1 ft/10 m and (Distance in m x 0.001) for D > 33 ft/10 m		
Range	6.6 - 330 ft/2 - 100 m (electronic)		
Measuring modes		Single and Tracking	
Time for single measurement	<3 sec		
Compensator	Magnet damped pendulum compensator (range +/- 10 min)		
Telescope	Magnification (optical) 24x		
Data storage		up to 1'000 points (only 150M)	up to 1'000 points
Environmental conditions	IP55		
Power supply	AA dry cells (4 x LR6/AA/AM3 1.5 V)		
Weight	< 5.5 lbs/2.5 kg		

* 0.027 inch/0.7 mm can be achieved with Sprinter fibre glass barcode staff

Leica Lino Family

Setup, Switch on, Ready!

Leica Linos project lines or points to millimeter accuracy, leaving your hands free to get on with the job. Making your work a lot easier! They automatically compensate for minor angular misalignments by levelling themselves over a range of ± 4°. So you avoid errors. The top quality optics and proven Power Range Technology™ ensure that the projected laser lines and points are highly visible and accurate. So they are simple to understand and easy to operate.

Leica Lino P3
Target plate, magnetic multifunction adapter, alkaline batteries (type AA, 3 × 1.5 V), pouch

1 **Order No: 777 067**

Leica Lino P5
Target plate, magnetic multifunction adapter, alkaline batteries (type AA, 3 × 1.5 V), pouch

2 **Order No: 777 068**

Leica Lino L2
Target plate, magnetic multifunction adapter, ball adapter for tripod, alkaline batteries (type AA, 3 × 1.5 V), carrying pouch

3 **Order No: 757 225**

Leica Lino L2+
Target plate, magnetic multifunction adapter, alkaline batteries (type AA, 4 × 1.5 V), pouch

4 **Order No: 783 711**

Leica Lino L2P5
Target plate, magnetic multifunction adapter, alkaline batteries (type AA, 4 × 1.5 V), pouch

5 **Order No: 777 069**

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4

5

Leica Detector LLD2
An acoustic signal and a visual signal are provided for finding the line outdoors

1 **Order No: 758 448**

Wall Bracket
Wall and ceiling adapter with 1/4“ srew, of universal application thanks to screw fastening

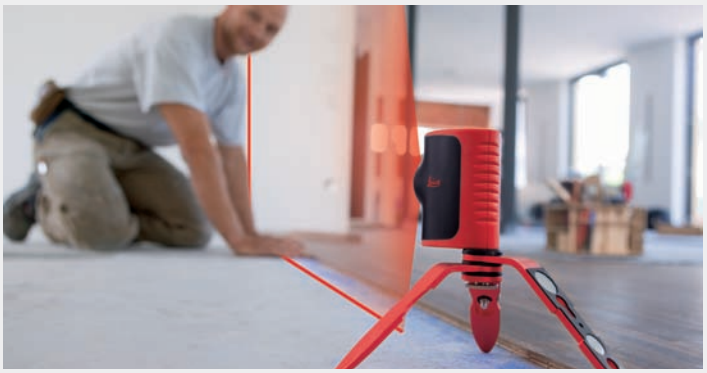
2 **Order No: 758 839**

TRI 100 Tripod
Professional tripod with easy fine adjustment for DISTO™ and all Linos

3 **Order No: 757 938**

Belt Pouch for Lino L2

4 **Order No: 767 202**



Technical Data	Lino P3	Lino P5	Lino L2	Lino L2+	Lino L2P5
Range	up to 50 ft/ 15 m*				
Levelling accuracy @ 16 ft / 5 m	0.06 inch/1.5 mm		0.04 inch/1.0 mm		0.06 inch/1.5 mm
Self-levelling range	4° ± 0.5°				
Accuracy of plumb point @ 16 ft / 5 m	0.06 inch/1.5 mm		-		0.06 inch/1.5 mm
Accuracy of horizontal line @ 16 ft / 5 m	-		0.06 inch/1.5 mm		
Vertical accuracy @ 3 m line length	-		0.03 inch/0.75 mm		
Beam direction	up, down, forward	up, down, forward, right, left	vertical, horizontal		vertical, horizontal, up, down, right, left
Laser type	635nm, laser class II				
Protection class splash water/dustproof	IP54				
Battery types	type AA 3x1,5V			type AA 4x1,5V	
Weight without batteries	0.68 lbs/310 g	0.7 lbs/320 g	0.7 lbs/321 g	0.8 lbs/370 g	
Warranty	2 years / 3 years when registerd within 8 weeks after purchase				

* depending on lighting conditions

Laser Overview

Whether it's general construction, pipe laying, machine control, or interior walls and ceilings, our lasers are built to handle any environment.

All construction lasers are of high technology and high precision tools. Compare these features and you'll see why our construction lasers set the standard for durability and value. Leica Geosystems lasers are waterproof, that means all critical components are completely protected from all wet weather conditions. The aluminum base of the Rugby 100/100LR/200 withstands rough handling and is highly resistant to abrasion and fracture. Construction-tough components have all undergone rigorous testing to assure long life under harsh conditions.

APPLICATIONS	Rugby 50	Rugby 100	Rugby 100LR	Roteo 35	Roteo 35G	Roteo 20HV	Roteo 25H	Rugby 55	Rugby 200
General construction: excavation, footing, concrete forming	X	X	X	-	-	-	-	X	X
Civil engineering: parking lots, runways, sports fields	-	-	X	-	-	-	-	-	-
Interior construction	-	-	-	X	X	X	X	X	X
Installing ceiling grids	-	-	-	X	X	X	X	X	X
Transferring points from floor to ceiling	-	-	-	X	X	X	X	X	X
Machine control of excavators, graders, dozers & similar equipment	X	X	X	-	-	-	-	-	-
Agricultural applications such as land levelling or tiling	-	-	X	-	-	-	-	-	-
Best visibility with green laser	-	-	-	-	X	-	-	-	-
FEATURES									
Waterproof and dustproof	IP55	IP56	IP56	IP54	IP54	IP54	IP54	IP55	IP56
Co-molded rubber bumpers	-	X	X	-	-	-	-	-	X
Elevation alert	X	X	X	X	X	X	X	X	X
Working Range up to 2500 ft/750 m diameter	-	-	X	-	-	-	-	-	-
Scan Modes	-	-	-	X	X	X	-	X	X
Remote Control	-	-	-	X	X	X	X	X	X
Grade entry with display	-	-	-	-	-	-	-	-	-
Manual Grade Capability	-	X	X	X	X	X	X	X	X
Two-year plus knockdown warranty	-	X	X	-	-	-	-	-	X

Grade Laser

Leica Geosystems' Grade Lasers are the most accurate and reliable lasers for general construction, civil engineering and machine control applications that require precise grade. They can be used wherever level, single or dual grades are required and are compatible with the 2D and 3D Machine Control Systems of Leica Geosystems for ultimate grade control.

APPLICATIONS	Rugby 260SG	Rugby 270SG	Rugby 280DG	Rugby 320SG	Rugby 410DG	Rugby 420DG
General construction: excavation, footing, concrete forming	X	X	X	X	X	X
Civil engineering: parking lots, runways, sports fields	-	-	-	X	X	X
Installing septic and gravity flow pipe for drainage	X	X	X	X	X	X
Machine control of excavators, graders, dozers and similar equipment	X	X	X	X	X	X
Agricultural applications such as land levelling or tiling	-	-	-	X	X	X

FEATURES						
Waterproof and dustproof	IP67	IP67	IP67	IP57	IP57	IP57
High impact composite housing	X	X	X	X	X	X
Elevation alert	X	X	X	X	X	X
Working Range up to diameter	2000 ft/600 m	2300 ft/700 m	2300 ft/700 m	3000 ft/900 m	2600 ft/800 m	3300 ft/1100 m
Scan Modes	-	-	X	-	-	-
Remote Control	-	-	X	-	X	X
Grade entry with display	X	X	X	X	X	X
Dual Grade	-	-	X	-	X	X
Two-year warranty	X	X	X	X	X	X
Two-year plus knockdown warranty	X	X	X	-	-	-

Leica Rugby 50

The simple one-button Construction Laser

Designed for general construction, the Leica Rugby 50 is a tough, affordable laser; ready to work when the user is. The Leica Rugby 50 has only one button. Press the button, wait until it self-levels and the head starts rotating, then work can begin. It will continue to self-level over the course of the day to ensure that work is accomplished reliably and accurately. H.I. Alert features monitor the Leica Rugby 50 as it works and shuts it down if it senses a bump or movement of the tripod.

2 Years Warranty
When registered within 8 weeks after purchase

Features:

- Simple, one-button operation
- High impact composite housing
- Fully sealed with protected head
- Watertight for all conditions
- Long battery life
- H.I. (Elevation) Alert protection/ Out of level indication
- Low battery indicator

Rod Eye Receivers see page 46

Rugby 50 Package with Rod Eye Plus
Consisting of: Rugby 50 with Carrying Case, Rod Eye Plus receiver and rechargeable NiMH batteries.
(Alkaline version - Order No: 600 3466)
Order No: 600 3467

1

Rugby 50 Package with Rod Eye Basic
Consisting of: Rugby 50 with Carrying Case, Rod Eye Basic receiver and rechargeable NiMH batteries.
(Alkaline version - Order No: 600 3468)
Order No: 600 3469

2

Universal Charger / Power Supply
with seperate power cable
1 **Order No: 727 165**

3

Alkaline Battery Holder
For Rugby 50/55 (without batteries)
2 **Order No: 752 048**

NiMH Battery Pack
For Rugby 50/55
3 **Order No: 752 049**

Batter-board clamp
4 **Order No: 758 343**

4

Leica Rugby 100/100LR

The rugged Family of Construction Lasers

The Leica Rugby 100 and Leica Rugby 100LR are automatic self-levelling rotating lasers for general construction and machine control. They are designed to be rugged yet easy to use. They can make quick work of concrete forming, pad placement and framework, setting foundations and footings, etc. The Rugby 100LR with its longer distance is a perfect solution for level machine control applications.
The Leica Rugby 100 and 100LR have become the standard in general construction lasers. Ruggedness, accuracy and reliability are the key to the success of the Leica Rugby's.

Features:

- Waterproof and dust proof to work reliably in all weather and job site conditions
- Wide, stable aluminum base for maximum strength and stability
- The head is enclosed to protect the interior parts
- Rugged, high-impact housing
- Two-year plus knockdown warranty

Rod Eye Receivers see page 46

Rugby 100 Package with Rod Eye Plus
Consisting of: Rugby 100 with Carrying Case, Rod Eye Plus receiver and rechargeable NiMH batteries.
(Alkaline version - Order No: 600 3493)
Order No: 600 3496

Rugby 100LR Package with Rod Eye Plus
Consisting of: Rugby 100LR with Carrying Case. Rod Eye Plus receiver and rechargeable NiMH batteries.
(Alkaline version - Order No: 600 3499)
Order No: 600 3502

Rugby 100 Package with Rod Eye Digital
Consisting of: Rugby 100 with Carrying Case, Rod Eye Digital receiver and rechargeable NiMH batteries.
(Alkaline version - Order No: 600 3492)
Order No: 600 3495

Rugby 100LR Package with Rod Eye Digital
Consisting of: Rugby 100 with Carrying Case, Rod Eye Digital receiver and rechargeable NiMH batteries.
(Alkaline version - Order No: 600 3498)
Order No: 600 3501

NiMH Battery Pack
1 **Order No: 726 746**

1

Universal Charger / Power Supply
with seperate power cable
2 **Order No: 727 165**

2

Alkaline Battery Holder
For Rugby 100/100LR/200/260SG 270SG/280DG (without batteries)
3 **Order No: 726 747**

3

FEATURES	Rugby 50	Rugby 100	Rugby 100LR
Working Range (diameter)	1000 ft/300 m	1000 ft/300 m	2500 ft/750 m
Accuracy	0.1 inch/2.6 mm @ 100 ft/30 m	0.06 inch/1.5 mm @ 100 ft/30 m	0.06 inch/1.5 mm @ 100 ft/30 m
Self-levelling	Horizontal	Horizontal	Horizontal
Waterproof	IP55	IP56	IP56
Manual grade operation	No	Yes	Yes
Two-year warranty	Yes*	Yes**	Yes**
Laser class	1	2	1

* with registration, ** includes knockdown warranty

Leica Roteo Family

Strong performance on all levels

Leica Roteo rotating lasers are truly multi-talented performers. Whether on ceilings or walls, on the floor or on a tripod – they allow you to work precisely on many indoor and outdoor tasks in which levelling or aligning is required.

Featured with

- Self-levelling
- Simple and intuitive to operate
- Available in the right package for every application
- Now with a green laser for excellent visibility

Technical Data	Leica Roteo 35	Leica Roteo 35G	Leica Roteo 20HV	Leica Roteo 25H
Range	up to 500 ft/150 m radius with laser receiver			
Self-levelling accuracy	1.2 inch/3 mm @ 100 ft/30 m			
Automatic self-levelling laser	horizontal, vertical			horizontal
Self-levelling range	± 4.5°			
Rotation speed	variable 0, 150, 300, 450, 600 rpm			600 rpm
Scanning angle	variable between 2° and 36°			n/a
Wall mount bracket	motorised	motorised	manual	n/a
Dimensions laser (H×W×D)	7.44 x 5.35 x 8.2 inch/189 x 136 x 208 mm (without wall mount bracket)			
Weight with batteries	3.75 lbs/1.7 kg			
Battery types	Alkaline D cells, 2 × 1.5 V or rechargeable battery pack (NiMH)		Alkaline D cells, 2 × 1.5 V	Alka. D cells, 2 × 1.5 V or re-charge. battery pack (NiMH)
Battery life	50 hours (rechargeable), up to 160 hours (alkaline batteries)	25 hours (rechargeable), up to 40 hours (alkaline batteries)	up to 160 hours (alkaline batteries)	50 hours (rechargeable), up to 160 hours (alkaline batteries)
Warranty	2 years / 3 years when registerd within 8 weeks after purchase			

Leica Roteo 20HV
The basic model

The Leica Roteo 20HV is the ideal rotating laser for basic users. Its easy-to-understand keypad is intuitive to operate. The package includes a complete set of accessories for interior works with remote control, wall mount bracket and target plate.

Leica Roteo 25H
Horizontal laser

The Leica Roteo 25H offers fully automatic horizontal self-levelling and even the possibility of inclining the levelling plane on the instrument.
The detector supplied in the set efficiently locates the laser beam over long distances: An appealing package for exterior works.

Leica Roteo 35
The all-in-one rotating laser

The Leica Roteo 35 impresses everyone with its powerful features and complete set of accessories for every application, especially for interior works.
The wall mount bracket allows convenient motorised control of the laser beam height by the combined remote control/detector or by manual adjustment.

Leica Roteo 35G
The all-in-one rotating laser with a green beam

The Leica Roteo 35G has all the characteristics of the Leica Roteo 35. In addition, it has a green laser beam for better visibility in very bright conditions and over very long distances. The pioneering green laser beam is four times more visible to the human eye. So you have the best possible visibility.

Best visibility
Green Laser

R250 Laser detector with clamp for Roteo 20HV/25H/35
For locating the red reference laser beam

1 **Order No: 772 793**

RRC350 Combined remote control/detector with clamp for Roteo 20HV/25H/35
For locating the red reference laser beam

Order No: 762 771

RC350 Remote Control

2 **Order No: 762 770**

CTP106 Aluminium tripod
Light-weight with shoulder strap & side clamp screws

3

Order No: 767 712

CET103 Elevator tripod
with shoulder strap, fast clamps and bubble, min. working height 84 cm, max. extension 246 cm (incl. extendible center column), with mm-scale, exchangeable rubber feet

3 **Order No: 768 033**

CTP104D Dome-head aluminium tripod
with shoulder strap and fast clamps, medium weight. Suitable for levels.

4

4 **Order No: 767 711**

Leica Roteo 20HV Package
Leica Roteo 20HV rotating laser, manual wall mount bracket, RC350 remote control, battery (AA) for the remote control, battery holder for alkaline batteries, red target plate, red laser glasses, batteries for laser

Order No: 772 789

Leica Roteo 25H Package
Leica Roteo 25H rotating laser, R250 detector with clamp, 9V battery for the detector, battery holder for alkaline batteries, rechargeable batteries, international charger, red target plate

Order No: 772 788

Leica Roteo 35
Leica Roteo 35WMR rotating laser, motorised wall mount, RRC350 combined remote control/ detector unit with clamp, 9V battery for the combined unit, battery holder for alkaline batteries, rechargeable batteries, international charger, red target plate, red laser glasses

6 **Order No: 765 752**

Leica Roteo 35G
Leica Roteo 35G rotating laser, motorised wall mount, RRC350G combined remote control/ detector unit with clamp, 9V battery for the combined unit, battery holder for alkaline batteries, rechargeable batteries, international charger, green target plate, green laser glasses

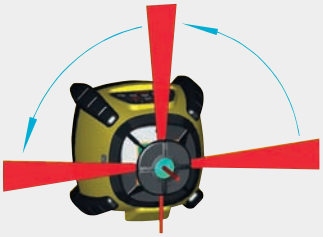
Order No: 772 787

6

Leica Rugby 55

The multipurpose Construction Laser

Designed for interior construction, the Leica Rugby 55 is a tough, versatile laser. It provides today's contractors with the tools needed for virtually any levelling or alignment job. The Leica Rugby 55 features an easy to use keypad, a watertight seal, variable head speeds, selectable scanning modes, a bright red beam and an alkaline or rechargeable NiMH battery pack.



Scan-90
Scanning or stationary beam can be quickly positioned in 90° increments.

Beam Down Mode
To position the beam over a reference point.

Sleep Mode
Conserve battery life without disturbing your setup.

Rugby 55 Package with Rod Eye Basic
Consisting of: Rugby 55 with standard carry case, Rod Eye Basic receiver and rechargeable NiMH batteries.
(Alkaline version - Order No: 600 3490)
Order No: 600 3491

1

Rugby 55 Package with Rod Eye Plus
Consisting of: Rugby 55 with standard carry case, Rod Eye Plus receiver and rechargeable NiMH batteries.
(Alkaline version - Order No: 600 3488)
Order No: 600 3489

2

Rugby 55 Interior Package
Consisting of: Rugby 55 with Interior carry case, IR Remote Control, Wall Mount Bracket, Ceiling Grid Targets (2) and rechargeable NiMH batteries.
(Alkaline version - Order No: 600 0743)
Order No: 600 0744

3

Ceiling Grid Target, Magnetic
1 **Order No: 732 791**

Wallmount Bracket
2 **Order No: 733 073**

4

IR Remote Control
3 **Order No: 755 008**

NiMH Battery Pack
For Rugby 50/55
4 **Order No: 752 049**

5

Alkaline Battery Holder
For Rugby 50/55 (without batteries)
5 **Order No: 752 048**

Universal Charger / Power Supply
with seperate power cable
6 **Order No: 727 165**

6

Rod Eye Receivers see page 46

Leica Rugby 200

Tough Inside and Out

The Leica Rugby 200 is a heavy-duty, horizontal and vertical self-levelling laser. Completely sealed, the Rugby 200 is ideal, inside and out, for both general and interior construction applications. Similar to the Rugby 100/100LR it is featured with a knockdown warranty. You can use it for installing ceiling grids and laying out walls, installing raised access floors as well as exterior site preparation.

2 Years Warranty

Features:

- 10" accuracy
- Fully automatic self-levelling
- Variable head speeds
- Selectable scan modes
- Manual with cross-axis self-levelling
- Automatic H.I. elevation alert
- Plumb reference point feature
- Sealed and waterproof
- Two-year plus knockdown warranty

Rod Eye Receivers see page 46

Rugby 200 Interior Package
Consisting of: Rugby 200 with Interior Carrying Case, IR Remote Control, Wall Mount Bracket, Ceiling Grid Targets (2) and rechargeable NiMH Batteries.
(Alkaline version - Order No: 740 236)
Order No: 740 237

Rugby 200 Package with Rod Eye Digital
Consisting of: Rugby 200 with Carrying Case, Rod Eye Digital receiver and rechargeable NiMH batteries.
(Alkaline version - Order No: 600 3510)
Order No: 600 3511

Rugby 200 Package with Rod Eye Plus
Rugby 200 with Carrying Case, Rod Eye Plus receiver and rechargeable NiMH Batteries
(Alkaline version - Order No: 600 3512)
Order No: 600 3513

Ceiling Grid Target, Magnetic
1 **Order No: 777 069**

Wallmount Bracket
2 **Order No: 733 073**

Infrared Remote Control Rugby 200
3 **Order No: 731 645**

NiMH Battery Pack
4 **Order No: 726 746**

Alkaline Battery Holder (without batteries)
5 **Order No: 726 747**

Universal Charger / Power Supply
with seperate power cable
6 **Order No: 727 165**

1

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6

Lasers at a glance	Rugby 55	Rugby 200
Working Range (diameter)	1000 ft/300 m	1000 ft/300 m
Accuracy	0.1 inch/2.6 mm @ 100 ft/30 m	0.06 inch/1.5 mm @ 100 ft/30 m
Self-levelling	Horizontal + Vertical	Horizontal + Vertical
Waterproof	IP55	IP56
Scan function	Yes	Yes
Remote Control	Yes	Yes
Two-year warranty	Yes*	Yes**

* with registration, ** includes knockdown warranty

Leica Rugby 260SG, 270SG, 280DG

Leica Rugby 260SG
A highly accurate, general construction laser with single grade capability.
The Rugby 260SG is a rugged general construction laser with ten arc second accuracy, LCD grade readout and semi-automatic grade with bump alert.

Leica Rugby 270SG
A fully automatic, single grade laser.
The Rugby 270SG is a fully automatic, single grade laser for the general construction contractor that needs a level or single slope for flat work, site preparation, septic installation, trenching and more.

Leica Rugby 280DG
Multipurpose Plus – A horizontal, vertical and dual grade laser for any exterior or interior application.
The Rugby 280DG is a multipurpose laser "Plus" with fully automatic, dual grade capability. It has a bright red beam, plumb beam, scan mode, horizontal and vertical self-levelling, plus dual grade up to 15% in both axes. Available with a two-way remote control.

Rod Eye Receivers see page 46

Rugby 260SG Package with Rod Eye Plus
Rugby 260SG with Carrying Case, Rod Eye Plus receiver and rechargeable NiMH Batteries
Order No: 600 3537

Rugby 270SG Package with Rod Eye Plus
Rugby 270SG with Carrying Case, Rod Eye Plus receiver and rechargeable NiMH Batteries
Order No: 600 3543

Rugby 280DG Package with Rod Eye Plus
Rugby 280DG with Carrying Case, Rod Eye Plus receiver, Laydown Bracket and rechargeable NiMH Batteries
Order No: 600 3550

Rugby 280DG Package with Rod Eye Plus and Remote Control
Rugby 280DG with Carrying Case, Rod Eye Plus receiver, Remote Control, Laydown Bracket and rechargeable NiMH Batteries
Order No: 600 3551

RF Remote Control, Rugby MR (for Rugby 280DG)
1 **Order No: 768 543**

1

Lasers at a glance	Rugby 260SG	Rugby 270SG	Rugby 280DG
Working Range (diameter)	2000 ft / 600 m	2300 ft / 700 m	2300 ft / 700 m
Horizontal leveling accuracy	0.6 inch/1.5 mm @ 100 ft/30 m	0.6 inch/1.5 mm @ 100 ft/30 m	0.6 inch/1.5 mm @ 100 ft/30 m
Self-levelling	Horizontal	Horizontal/Grade	Horizontal / Vertical / Grade
Grade Capability	± 10% (x-axis)	± 15% (x-axis)	± 15% (both axes)
Environmental	IP67	IP67	IP67
Operating Temperature	-4°F to +122°F/-20°C to +50°C	-4°F to +122°F/-20°C to +50°C	-4°F to +122°F/-20°C to +50°C
Two-year plus knockdown warranty	Yes		

Leica Rugby 320SG & 410/420DG

5 Years Warranty

2 years standard
+3 years extension
available on request*

Rugby, the toughest players on any field.

Making the grade is what the Leica Rugby is all about. Whether your work requires level, single or dual grades and high accuracy over a long distance range, the Leica Rugby's extensive features will ensure both material and labour savings, keeping you on target to increase your bottom line.
The Leica Rugby Grade Lasers are automatic and self-levelling for jobs of any size, large or small. They can be used for any application involving precise grade control such as:

- Building pads, parking lots and runways
- Precise depth control for sub-base and fine grade excavation
- Agricultural applications such as land leveling or tiling
- Concrete forming and framework
- Retention ponds and batters
- Setting foundations and footings
- Absolute compatibility with the widest range of machine control solutions

Rugby 320SG Package with Rod Eye Plus
Rugby 320SG with Carrying Case, Rod Eye Plus receiver and rechargeable NiMH Batteries
Order No: 600 3516

Rugby 410DG Package with Rod Eye Plus
Rugby 410DG with Carrying Case, Rod Eye Plus receiver and rechargeable NiMH Batteries
Order No: 600 3520

Rugby 420DG Package with Rod Eye Plus
Rugby 420DG with Carrying Case, Rod Eye Plus receiver and rechargeable NiMH Batteries
Order No: 600 3478

1

RF Remote Control Rugby LR
for Rugby 410/420DG
1 **Order No: 765 668**

Scope and Mount Assembly
2 **Order No: 739 870**

2

Rod Eye Receivers see page 46

Lasers at a glance	Rugby 320SG	Rugby 410/420DG
Working Range (diameter)	3000 ft/900 m	2600 ft/800 m (410DG), 3300 ft/1100 m (420DG)
Accuracy	0.6 inch/1.5 mm @ 100 ft/30 m	0.6 inch/1.5 mm @ 100 ft/30 m
Self-levelling	Horizontal + Grade	Horizontal + Grade
Grade Capability	-5 to +25% in one axis	-5 to + 25% in either axis, -5 to +15% in both axis
Waterproof	IP57	IP57
Operating Temperature	-4°F to +122°F/-20°C to +50°C	-4°F to +122°F/-20°C to +50°C
Weight	11 lbs/5 kg	11 lbs/5 kg
Warranty	2 years / +3 years extension available on request	

Leica Piper 100/200

Rock solid Construction, outstanding Performance in a compact Package

Built with a rugged aluminum housing, these pipe lasers perform powerfully even in tough jobsite conditions. The Leica Piper is the only pipe laser that fits inside a 100 mm (four inch) pipe.

- Automatic grade compensation
- Long battery life
- Bright, powerful beam
- Large, easy to read display
- Alignmaster™ - Automatic target recognition (Piper 200)

... in the manhole

... in the pipe

Piper 100 with Remote, Target and Li-Ion Battery
Piper 100 with Carrying Case, IR Remote Control, Target Assembly, Lithium-Ion Battery (GEB221), 4Ah, Charger Li-Ion (GKL211), incl. AC adapter, car adapter

1 **Order No: 748 704**

Piper 200 with Alignmaster™, Remote, Target and Li-Ion Battery
Piper 200 with Carrying Case, IR Remote Control, Target Assembly, Lithium-Ion Battery (GEB221), Charger Li-Ion (GKL211, incl. AC adapter and car adapter)

Order No: 748 710

Target Assembly

2 **Order No: 725 858**

Trivet Assembly

3 **Order No: 746 158**

IR Remote Control

4 **Order No: 746 157**

Target Assembly, 4"/100 mm

5 **Order No: 748 775**

Scope and Mount Assembly

6 **Order No: 746 160**

1

2

3

4

5

6

Leica Digisystem

Safe and fast Location of Underground Services

Every year, site workers are injured due to inadvertently striking buried electricity cables or gas pipelines. With the Digisystem operators can locate, trace and mark underground services precisely and reliably prior to excavation.
Several unique vital safety features are built into the Digicat 550i model.

Features:

- State-of-the-art digital signal processing for precision service locating
- Automatic controls making the product easy to use, requiring minimal user experience
- Starts in Power Mode - detecting current carrying services first for maximum operator safety
- Hazard Zone - the new feature which indicates the presence of a shallow buried service in power mode, (Within approximately 30 cm) alerting to the increased risk
- Digicat 550i model has the added benefit of service depth estimation to 3 m for additional survey information
- Highly visible digital LCD display with built-in light sensor, automatically enabling the backlight in dark conditions
- Robust, light weight design, specifically engineered for tough site conditions
- Warranty: 1 year standard

The Digicat 550i operates in 5 selectable modes:

Auto — AutoMode - unique detection mode which combines power and radio modes, providing a more comprehensive location mode making cable detection easier and safer!

33 kHz — 33 kHz Mode - detects a 33 kHz applied to a service produced from the Digitex signal generator.

8 kHz — 8 kHz Mode - detects an 8 kHz applied to a service produced from the Digitex signal generator.

Radio Mode - detects signals originating from distant radio transmitters. These radio signals penetrate the ground and are re-radiated by buried metallic cables and pipes.

Power Mode - detects power signals radiated by energised (current carrying) services.

Leica Digicat 550i
In addition, the 550i offers service depth estimation, when used in combination with the Digitex signal generator in 8 or 33 kHz mode. Available with Bluetooth to integrate service detection within the survey mapping process. (60Hz)

Digicat 550i with Bluetooth*

1 **Order No: 780 232**

1

Digitex 8/33 kHz Signal Generator
Improves buried service detection by applying a traceable signal to conductive services where no signal is present. (incl. batteries, connection cable set, earth spike & user manual)

2 **Order No: 731 049**

2

Digitrace Service Tracer, 30 m
Allows tracing of plastic ducts, clay drains and other nonmetallic conduits.

Digitrace 50 m - Order No: 731 051
Digitrace 80 m - Order No: 731 052

3 **Order No: 731 050**

3

Signal Clamp
Provides a direct connection from the Digitex to metallic pipes, cables, etc. (max. 100 mm outside diameter)

4 **Order No: 731 056**

4

Digimouse (8 kHz & 33 kHz)
38 mm diameter signal transmitter used to trace drains, sewers and other non-conductive services. Can be attached to drain rods, boring tools, inspection cameras, etc.

5 **Order No: 731 053**

5

Property Connection Cable Set (US)
Cable Set to apply a signal from Digitex onto property power cables, US-Version

6 **Order No: 731 667**

6

Digisystem Carry Bag**
Carries the main components of the System Digisystem. (Digicat 550i and Digitex 8/33) and accessories

7 **Order No: 740 307**

7

* Information available upon request
** Content is not included

Leica DISTO™ Family

Simple, quick and accurate!

- Quick and efficient
  You can measure distances at the touch of a button, in just a few seconds – even when working on your own. Saving you time and money.

- Precise and reliable
  The laser makes it possible for you to measure distances precisely to the millimetre.

- Safe and modern
  You can avoid dangerous measurement situations and potential associated accidents. Use the modern technology of today.

Leica DISTO™ D210XT US handheld laser distance meter
The robust one: tested with drop tests from a height of 2 m, jet water protected and dust-proof with IP65: this device is made for measurements under extreme conditions. Whether measuring out of corners, slots or from edges, with the multifunctional endpiece you are prepared for all measuring situations. The instrument detects the position of the endpiece automatically, which helps you to avoid expensive measuring errors.

1 **Order No: 776 110**

1

Leica DISTO™ D2 US handheld laser distance meter
The compact and handy base model was specifically designed for indoor applications. Shortcut keys for addition, subtraction, area and volume calculation make measuring fast and very reliable. The comprehensive measurement results are clearly displayed on three lines. Easily readable, even in the dark, thanks to the illuminated display.

2 **Order No: 763 495**

SMALLEST LASER DISTANCE METER IN THE WORLD!

2

Leica DISTO™ D330 US handheld laser distance meter
The Leica distance meter with Smart Horizontal Mode™ for absolute precise measurements. The combination of distance and tilt measurements opens up a variety of new measuring options, such as horizontal distances or indirect heights and widths. The Leica DISTO™ D330 can calculate rectangular and triangular areas, volumes, room dimensions and various types of Pythagoras functions. A time delay release and enough memory for up to 20 measurements round off the instrument's wide range of functions. The results are displayed on the large (2"), clearly arranged and high contrast display. At the touch of a button, the display shows supplementary information about the measurement taken.

1 **Order No: 776 149**

1

Leica DISTO™ D330i Bluetooth US handheld laser distance meter
Has all characteristics of the DISTO™ D330 and in additon it offers the convenience of wireless, error-free data transfer to PCs and Pocket PCs. Transfer your measurement data directly and avoid expensive typing errors. Using the navigation keys on the DISTO™ you can control the cursor on your Pocket PC or PC. The data transfer software „Leica DISTO™ Transfer" is included – simple to install and with automatic updates.

2 **Order No: 776 748**

Bluetooth®

2

Leica DISTO™ D5 US handheld laser distance meter
Strong outdoor performer: The integrated digital Pointfinder with 4x zoom makes aiming at long distances much easier. You can even carry out measurements in glaring sunlight. Easy to read: Measurement results and supplementary information are shown on the large colour display. The high image resolution provides a clear, sharp picture in the digital pointfinder.
Integrated tilt sensor: Using the tilt sensor you can also take indirect measurements. From this the horizontal distance can be derived inspite of obstructions.

3 **Order No: 764 553**

WORLD FIRST:
DIGITAL POINTFINDER
WITH 4x ZOOM!

3

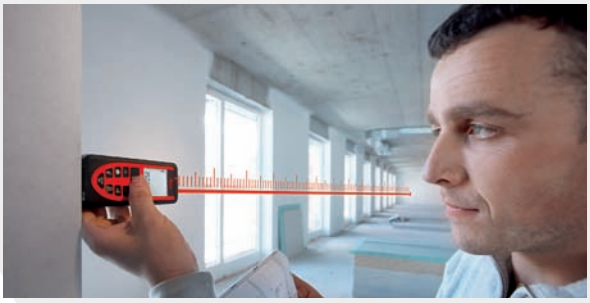
Leica DISTO™ D8 US handheld laser distance meter
360° tilt sensor: The combination of precise angle and distance measurements allows you to determine distances where conventional methods fail.
Error-free data transfer: Bluetooth® and the supplied "Leica DISTO™ Transfer" software ensure that data transfer to pocket PCs and PCs is quick and error-free. The simple way to enter your results into Excel®, Word®, AutoCAD® and other programs for further processing.
Strong outdoor performer: Measure long distances simply and quickly thanks to the digital pointfinder with its 4x zoom and high resolution colour display.

4 **Order No: 764 558**

Bluetooth®

4

Leica DISTO™ Family



Functions	D210XT	D2	D330	D330i	D5	D8
Minimum / maximum measurements	•	•	•	•	•	•
Continuous measurement	•	•	•	•	•	•
Addition / subtraction	•	•	•	•	•	•
Area / volume measurements	•	•	•	•	•	•
Room dimensions	•		•	•	•	•
Indirect measurement with Pythagoras	•	•	•	•	•	•
Smart Horizontal Mode™			•	•		
Trapezium measurements					•	•
Indirect measurement with tilt sensor					•	•

Technical Data	D210XT	D2	D330	D330i	D5	D8
Typical measuring accuracy	0.06 in/1.5 mm		0.04 inch/1.0 mm			
Range: 2 inch/50 mm	230 ft / 70 m	200 ft / 60 m	330 ft / 100 m		660 ft / 200 m	
Power Range Technology™			•	•	•	•
Distance / Ø laser-spot	33, 160, 320 ft / 0.24, 1.2, 2,4 inch (10, 50, 100 m / 6, 30, 60 mm)					
Tilt sensor Measurement range Accuracy to laser beam Accuracy to housing				± 45˚ ± 0,3˚ ± 0,3˚		360˚ - 0,1°/+ 0,2˚ ± 0,1˚
Units in tilt sensor			0,0° , 0,00%		0.0°, 0.00%, mm/m, in/ft	
4-fold digital pointfinder					•	•
Store constant value			1			
Recall last values	10		20			30
Time delay release (timer)		•	•	•	•	•
Display illumination	•	•	•	•	•	•
Measuring units	m, ft, in				m, ft, in, yd	
Free Software				•		•
Data Interface				BLUETOOTH® (Class 2)		BLUETOOTH® (Class 2)
Measurements per battery set	up to 5,000			up to 5,000*	up to 5,000	up to 5,000*
Multifunctional end piece with automatic detection	automatic	manual	automatic			
Tripod mounting thread			metal			
Batteries	Typ AAA, 2 x 1,5 V				Typ AA, 2 x 1,5 V	
Spray proof / dust protected	IP65	IP54				
Dimensions	4.8x2.1x1.1 inch 122x55x28 mm	4.4x1.6x0.9 inch 111x42x23 mm	5.0x1.9x1.0 inch 127x49x27 mm		5.6x2.2x1.2 inch 143x55x30 mm	
Weight with batteries	0.35 lbs/159 g	0.2 lbs/90 g	0.33 lbs/149 g	0.33 lbs/150 g	0.43 lbs/195 g	0.45 lbs/205 g
Warranty	2 years / 3 years when registerd within 8 weeks after purchase					

* Reduced in BLUETOOTH® mode

Leica DISTO™ Accessories

GZM26, Target Plate , large
Size: 210 x 297 mm (A4)
Grey side for short and brown side for long distance measurements

1 **Order No: 723 385**

GZM27, Stick-On Target Plate
Target plate held in place with kneading adhesive.
Size: 45 x 100 mm

2 **Order No: 723 774**

Setup Target Plate (197 mm x 274 mm)
For placing on ground markers

3 **Order No: 766 560**

GLB10, Laser glasses
Red lens glasses for improved visibility of the laser dot in bright rooms and outdoors up to 10-15 m

4 **Order No: 723 777**

Softbag
Large carrying case for secure storage and transportation of Leica DISTO™s handlasermeter and accessories. The case is supplied without content

5 **Order No: 667 169**

Arm Holder Pocket PC
For comfortable and long wear of a Pocket PC designed universal arm-holster

6 **Order No: 739 200**

LSA360 Adaptor
for attachment to the pole and the TRI100 tripod (page 13)

7 **Order No: 769 459**

Leica RedLine

Tailor Made Site Solutions

Leica RedLine brings industry leading performance and technology to you in a simple, easy to use, versatile package. Specifically designed for the construction site and the construction user in mind Leica RedLine can be tailored to fulfill all of your construction site positioning needs.

Save time and money

- By using highly versatile site positioning sensors allowing you to reduce your investment to only the equipment you really need
- By using the same components across the entire site
- By minimising operator downtime and enabling operators to work without depending on surveyors

Improve your performance and productivity

- By working to higher accuracies
- By increasing operator flexibility
- By eliminating rework

Hit the ground running

- Learned in minutes
- Simple, guided „Level and Go" concept
- Uses the same interface across all RedLine sensors

From office to field and back again
the Leica Redline product range has the perfect solution for all your construction site design and positioning needs. The unique modular system design allows the same components to be used across the entire construction site.

Leica PowerTracker
The perfect precision tool as simple as can be

- Designed specifically with the construction user in mind, simply level and go
- No keyboard on board and an extremely intuitive user interface
- Highly accurate robotic tracking performance
- Use for machine control or full one man robotic measuring tasks
- Warranty: up to 3 years with valid CCP

Leica PowerAntenna
The worlds most versatile GPS/GNSS system

- Use the same components on and off machine applications
- Versatile and upgradable to suit all construction measu ring tasks machine, rover or base
- Leica Geosystems cutting edge technology in a scalable design that grows with your needs
- Warranty: up to 3 years with valid CCP

Leica PowerBox
A new dimension in site positioning

- Designed for the toughest machine control and con- struction measurement tasks
- For position and orientation simply add a PowerAntenna or second PowerBox
- Use the same component for all on and off machine applications
- Warranty: up to 3 years with valid CCP

Leica Builder Series

Discover the Leica Builder for your task

Still using a measuring tape or an optical theodolite? Do you need a tool that fulfills all measuring tasks on your construction site with ease, regardless of your profession? The Leica Builder does it all for you - trouble-free, accurately and much quicker. Simply discover the Leica Builder for your task.

Setup with Control Line or coordinates
Existing axis forms the reference line for the Builder

Data exchange via USB Stick or Bluetooth

5

Your Builder is Ready to go
No matter which Builder you choose, you will always get a complete set you can start your job with.

Builder 109 Set
Theodolite with laser plummet, 1 keyboard, tribrach, Li-Ion batterie, charger, user manual and carry case
(Builder 106 Set - Order Nr: 772 728)
1 **Order No: 772 727**

1

Builder 209 Set
Total Station with EDM, serial RS232 interface, laser plummet, 1 keyboard, tribrach, Li-Ion batterie, charger, flat prism, reflector pole, user manual and carry case
(Builder 206 Set - Order Nr: 772 730)
2 **Order No: 772 729**

2

Builder 309 Set
Total Station with EDM, internal memory, serial RS232 interface, USB compartment, laser plummet, 1 keyboard, tribrach, Li-Ion battery, charger, flat prism, reflector pole, USB to Mini-USB transfer cable, user manual and carry case
(Builder 306 Set - Order Nr: 772 732)
3 **Order No: 772 731**

3

Builder 409 Set
Total Station with EDM, internal memory, serial RS232 interface, USB compartment, laser plummet, 1 alphanumeric keyboard, tribrach, Li-Ion battery, charger, TrueZero prism, reflector pole, USB to Mini-USB transfer cable, user manual and carry case
(Builder 405 Set - Order Nr: 772 734)
4 **Order No: 772 733**

4

Builder 509 Set
Total Station with multifunctional EDM, internal memory, serial RS232 interface, USB compartment, Bluetooth, laser plummet, 1 alphanumeric keyboard, tribrach, Li-Ion battery, charger, TrueZero prism, reflector pole, USB to Mini-USB transfer cable, user manual and carry case
(Builder 505 Set - Order Nr: 772 736)
5 **Order No: 772 735**

5

Connect Leica DX10 field controller
Load your preferred Software tool and keep working as usual
6 **Order No: 765 815**

6

Leica Builder Series

Profile Boards
Builder does it all: Setting out boards, transfer alignments to/from boards or simply storing all board data in the builder.

Volumes
How much yd³ did you really move today? Cutting to formation, mass haul, cut/fills, stockpile monitoring – keep right on top of your earthworks progress with Builder.

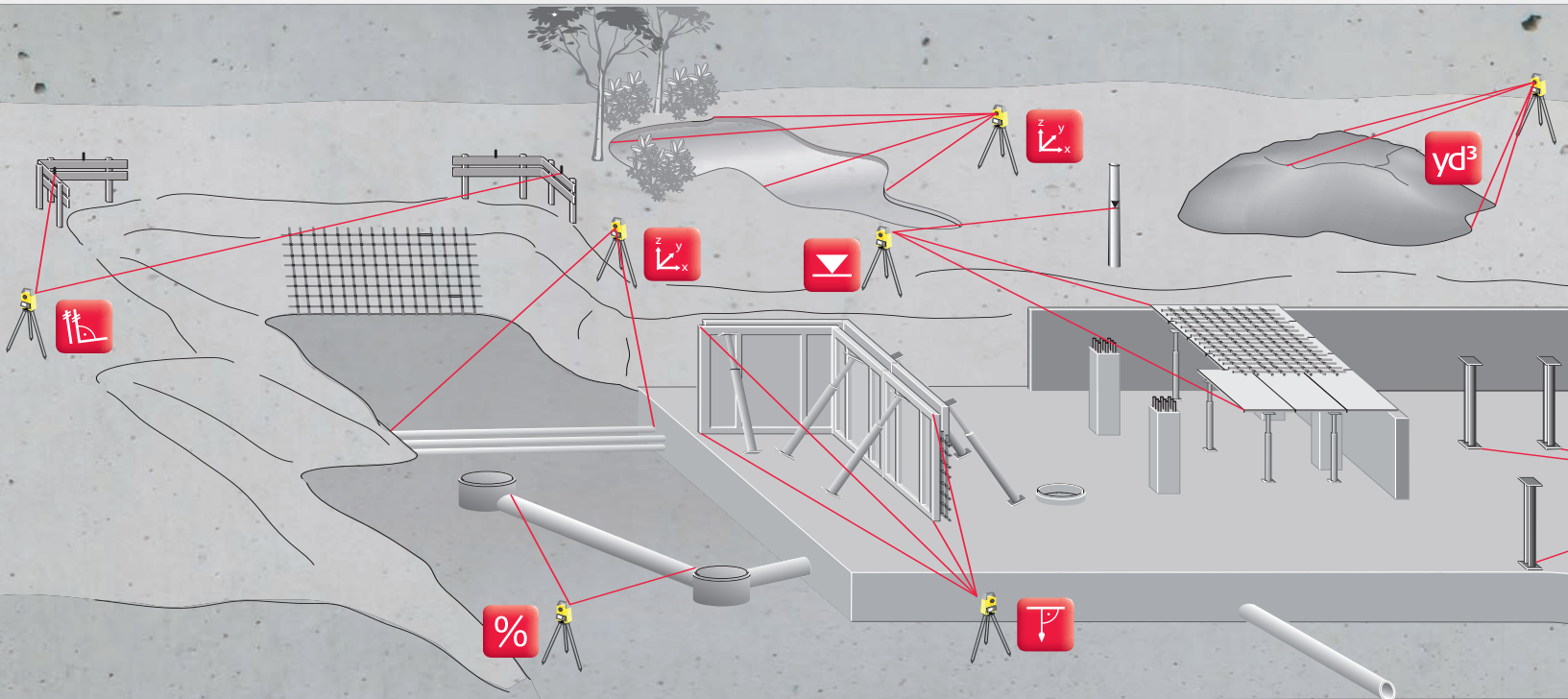
Area
How many roof tiles are needed? Want to be doubly-sure how much asphalt to order for the parking lot? Will those windows fit? Builder has the answer in m².

Line Layout
Columns, formwork, greenhouses, racking, fencing lines, structures or terraces. Builder takes reference lines, alignment and curves in stride. Alignment of structures along the lines is easily accomplished; trouble-free transfer of line and offset values from the plan; straightforward layout in inclined terrain.

As-Built
Carpenters, landscapers, stage builders, architects, utilities companies, steel and facade constructors – all use Builder to record as-builts quickly and accurately. Point collection and storage; collect existing ground features (surveying topo); confirm and verify point positions; check wall for plumb (verticality).

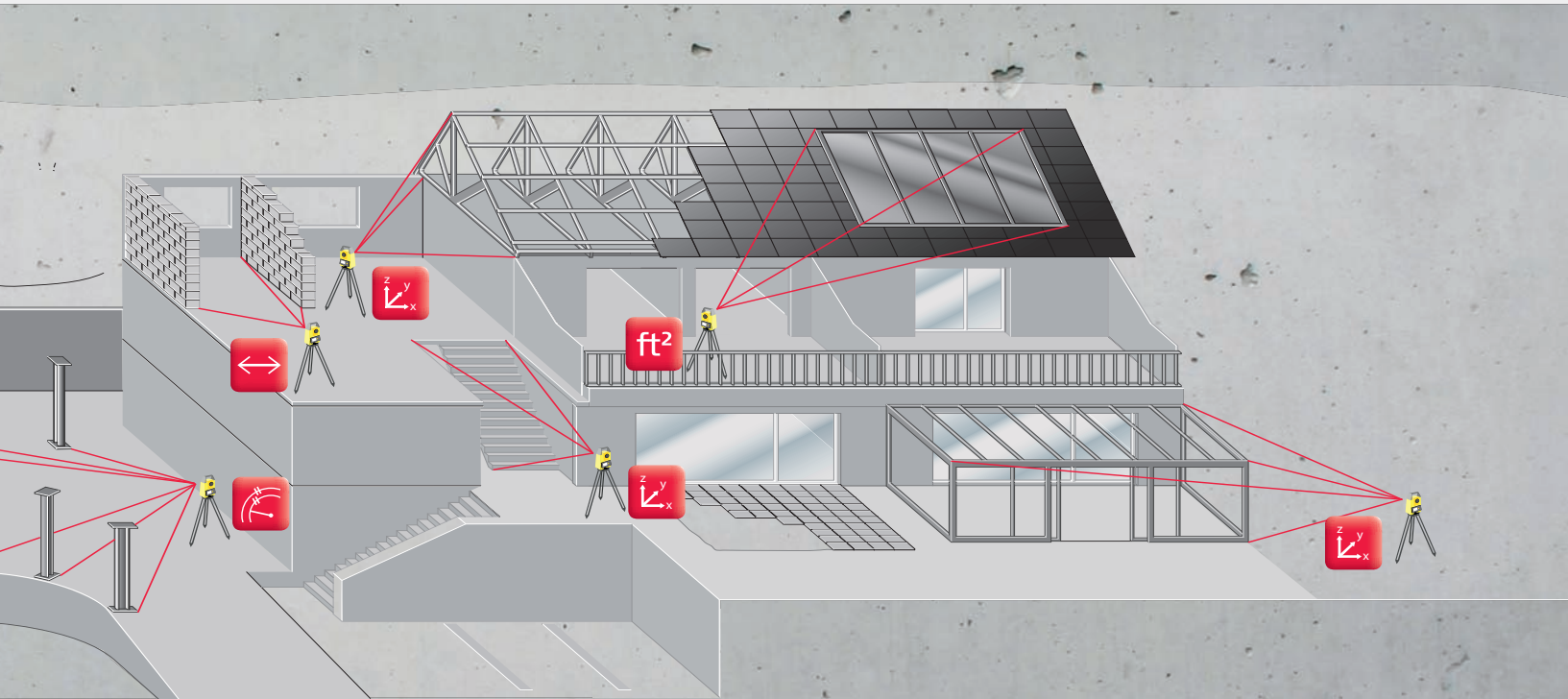
Height Transfer
Transfer of reference heights, define datum lines, marking ground floor elevations, checking remote heights – also vertically the Builder is powerful.

Checks
Is that formwork vertical? Sufficient clearance between crane and roof? Are those walls parallel? Is the drainage at the right grade? Is this true 90°?



Technical Data	Leica Builder 100	Leica Builder 200	Leica Builder 300	Leica Builder 400	Leica Builder 500
Full Power Site Software					X
Wireless Communication					X
Full RedDot range					X
Prism Measurement Mode				X	X
MEAS / REC Switch Key				X	X
Cell-phone style use				X	X
Industrial USB Memory Stick			X	X	X
Volumes Calculation			X	X	X
Data Im/ Export to USB Stick			X	X	X
Direct DXF download			X	X	X
1-Person Station		X	X	X	X
Tracking Mode		X	X	X	X
PC / Handheld Interface		X	X	X	X
Laser Distance Measure		X	X	X	X
Control Line Setup		X	X	X	X
Theft Protection	X	X	X	X	X
3 Languages	X	X	X	X	X
Leveling Aid	X	X	X	X	X
Dual Axis Compensator	X	X	X	X	X
Laser Plummet	X	X	X	X	X
Data Storage / Communication					
Internal Memory [points]	-	-	15'000	50'000	50'000
Angle Measurement					
Accuracy/Option	9"/6"	9"/6"	9"/6"	9"/5"	9"/5"/3"
Distance Measurement					
to glass prism				1'650 ft (11'500 ft) 500 m (3'500 m)	1'650 ft (11'500 ft) 500 m (3'500 m)
without reflector (90% reflective)	-	260 ft/80 m	400 ft/120 m	50 ft/15 m	820 ft/250 m
to reflective tape (60 x 60 mm)	-	820 ft/250 m	820 ft/250 m	50 ft/15 m	820 ft/250 m
Battery Type/Life	Li-ion/approx. 20 hours[1]				
Environmental	IP55				
Warranty	1 year / up to 3 years with valid CCP				

[1] Single Meaurement every 30 second at 25°C with GEb221. Battery time may be shorter if battery is not new



Leica Geosystems Machine Control

SitePOWER
by Leica Geosystems

Grading

1D

Leica PowerBlade
Laser control for a broad range of machinery such as Scrapers, Dozers and agricultural Tractors, automatically controlling and adjusting the work.

2D

Leica PowerGrade
Leica PowerGrade is designed to increase productivity and efficiency of machine operations on site. The system provides automatic control of both slope and elevation. Adding an extra mast and laser sensor allows the driver to work independently of the slope direction. The key lies in the unique powersnap concept whose central element is a docking station allowing easy and quick exchange of panels.

3D

Leica PowerGrade 3D
Simply swap the 2D with the 3D panel or even transfer the panels between machines. The 3D system brings the design surfaces and alignments inside the cab. You can now work totally independently anywhere on the design surface guided by a GNSS/GPS system or a robotic total station.

Digging

Leica Depthmaster
The Leica Depthmaster is an ideal tool for any kind of height control for Excavators. Simply turn the excavator dipper into an integrated measuring stick without having to leave the cabin. It is simple to setup and can be used with any rotating laser.

Leica PowerDigger
Leica PowerDigger is a level and dual slope solution providing excavator operators with real-time depth, reach and slope information, in relation to any reference, on an easy-to-read graphical display mounted in the cab. A highly visible LED lightbar gives the operator a quick reference to the desired level.

Leica PowerDigger 3D
Leica PowerDigger 3D is the world's most popular, flexible and user friendly 3D excavator system. Using the Leica PowerBox GNSS (GPS + GLONASS), the exact 3D position of the bucket is determined and compared with a reference surface. Slope and height differences are then shown to the operator, in realtime, on the screen.

Paving

Leica PaveSmart 3D
There are Leica PaveSmart 3D solutions for Slip-form Pavers, Curb & Gutter machines, Trimmers, and RoadPaving covering GOMACO and WIRTGEN technology. Fully automatic grade and steer control using 3D sensor technology means you can pave exactly where and when you want to, not where you're forced to.

Leica Depthmaster

Low Cost Depth Indication System

Together with a rotating laser the excavator receiver Leica Depthmaster provides accurate elevation control and a unique, patented, built-in vertical plumb indicator for consistent accuracy. Constant Accuracy Band (C.A.B.) technology used in the Depthmaster receives the laser signal and electronically maintains consistent accuracy over distance.

Depthmaster Excavator Receiver with Clamp-on Brackets
Package includes Depthmaster with Carrying Case, Battery Pack Ni-Cad for Depthmaster, Clamp-on Bracket (2x), Charger 110V and User Manual

1 **Order No: 742 438**

Depthmaster Excavator Receiver with Magnetic Bracket
Package includes Depthmaster with Carrying Case, Battery Pack Ni-Cad for Depthmaster, Magnetic Bracket, Charger 110V and User Manual

2 **Order No: 742 440**

1

2

Main Features at a Glance

- Constant Accuracy Band (CAB) - Maintains ‚on-grade' accuracy regardless of operating distances spot size, or rotating laser type, either ±1/6" (4 mm) or ±1/2" (12 mm) depending on jobsite requirements.
- Patented Plumb Indicator -
  Monitors the excavator's dipper arm verticality for consistent and accurate grade readings.
- Magnetic Mount - The Depthmaster is extremely convenient with its powerful magnetic mount. It takes seconds to attach to the machine. No drilling or welding is required.
- Shake to Wake - The unique ‚Shake to Wake'
  system turns off non-essential electronics after 5 minutes of non-use. It automatically turns back on when your machine begins to move again.
- Pole Mount - When used with the optional clamp-on assemblies, the Depthmaster can be mounted on any machine.
- Memory - When the Depthmaster is out of the range of the lasers a LED will blink indicating which way to move the receiver to reacquire the laser.
- Warranty: 1 year standard

Leica PowerBlade

Extremely rugged Machine Control System for the Agricultural and Construction Markets

The Leica PowerBlade system is a complete solution steered by the MCP-700 Control Box. A choice of Laser Receivers allows you to tailor the system to your application. An extremely rugged Electric Mast and a variety of hydraulic options complete the system. The system can be mounted on a broad range of machinery such as Scrapers, Dozers and agricultural Tractors.

Features & Benefits:

- Variety of hydraulic valves can be operated and tuned
- Choice of manual or automatic level control of the machine
- Simple user interface
- Very bright LED display
- 360° capture range in 190 mm (8“) window with any MD Laser Receiver
- Proportional detection
- 2,5 mm (1/10“) accuracy independent of laser beam width
- Works with all types of lasers
- Choice of measurement units (metric, US feet, US inches)

PowerBlade Stand Alone System
MLS700 Laser Receiver incl. Case, Power Cable Laser Receiver MIL 4S,10m

Manual Mast Package
MCP700 PowerBlade Control Panel, MLS700 Laser Receiver incl. Case, Manual Telescope Mast 1.2m gray RAL7035, MMB700 Shock Mount for MPM700, cables & accessories

Power Mast Package
MCP700 PowerBlade Control Panel, MLS700 Laser Receiver incl. Case, MPM700 Power Mast 1.2m, MMB700 Shock Mount for MPM700, cables & accessories

For further information to these packages please contact your local Leica Geosystems distributor.

Leica PowerDigger

Made for all your Excavator Needs

PowerDigger provides excavator operators with real-time depth, slope and reach information, in relation to any reference, on an easy-to-read graphical display control panel mounted in the cab. A highly visible LED lightbar gives the operator a quick reference to the desired level. With PowerDigger you will always know the exact position of the bucket. Advanced CANbus based accelerometers are used to measure the position of the boom, stick and bucket. These sophisticated sensors are designed for the harshest environments including underwater.

Features

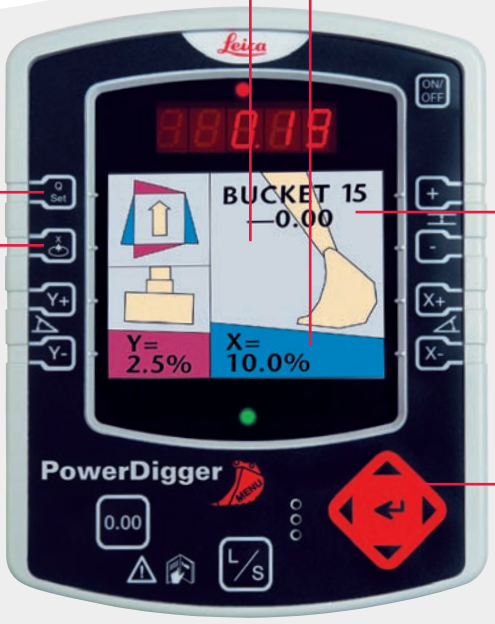
- Most accurate system on the market –1 cm (0.5“) or 0.2% of the reach
- More than 30 functions
- Fits any machine
- 4“ Colour Graphic display and very easy to use
- Holds 20 different bucket settings
- 100% waterproof (IP68) – no special sensors or cables needed for underwater use
- Upgradeable from single grade to dual grade and 3D guidance
- Upgrade with tilt bucket sensor
- Bucket sensor can be mounted on the dog bone
- Often used function keys can be activated from the joystick

PowerDigger Panel

Multiple bucket displays
A multi-color bucket display visualizes the bucket position. Essential when digging under water, in deep trenches or whenever the bucket is out of sight.

Quick key - multiple settings recalled
With the „Quick Key“ 10 different user defined settings can be saved and recalled by the push of just one button.

Shortcut keys
These shortcut keys are used to access the most commonly used functions. Today most users choose to install the PowerDigger System as a dual slope system. Function calls related to the dual slope function have therefore been moved “upwards” as yet another shortcut key for fast and easy use.

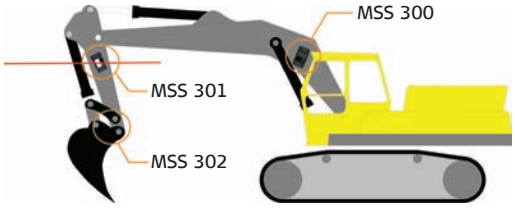


Machine Heading Display
When working with both X and Y slopes the heading of the machine is clearly displayed on the LCD display.

4“ Full Colour LCD Graphic Display
All guidance and status information at a glance on the crisp and clear LCD display – even in direct sunlight, Also possibility of guidance by audio signals

Easy navigation through menus
A QuickNav™ multifunction button has been added. This button will aid the driver to quickly navigate through the PowerDigger menus.

PowerDigger Basic (Order No: 6001444)



Trenching, Layering

Laser Mode Option

Slopes, Grades, Profiles

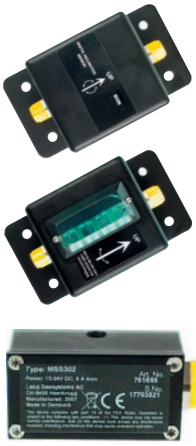
Underwater, Blind Cuts

Basic System Sensors

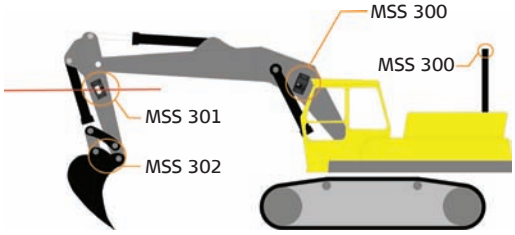
MSS 300 Angle Sensor
Can be used as boom, stick or bucket sensor. Normally it is only used as the boom sensor.

MSS 301 Angle Sensor incl. Laser Catcher
Why mount two sensors when you can combine everything in one? The MSS 301 is a combined stick angle and laser sensor. It's compact and easy to position in the right spot.

MSS 302 360°
This 360° bucket sensor can be mounted on the bucket, in the quick coupler or on the dog bone. The small size allows for it to be "hidden" in a protected location to avoid damage to cable or sensor.



PowerDigger Pro (Order No: 6001445)



Rotation compensation

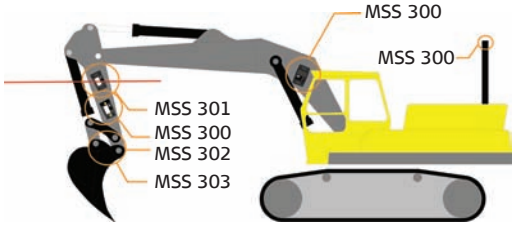
Pitch

Roll

PowerDigger Pro senses complete machine attitude - pitch, roll, and rotation (heading).

MRS 300 Rotation Sensor
The MRS 300 is a pitch, roll and direction sensor used to determine the attitude of the excavator. While working, the accurate roll and pitch measurement from the MRS 300 easily compensates for the rolling and pitching motion of the machine to give the required cm-accuracy (sub-inch level).

PowerDigger Pro with Cross Slope Option (Order No: 6001446)



Cross Slope

Add dual-axis bucket angle sensing for ultimate performance.

MSS 303 Cross Slope Sensor
You can also update your PowerDigger to include a sensor for a tilt bucket. The compact size makes it easy to hide in the quick coupler.

MJB 300 Junction Box
The MJB 300 Junction Box is expanding the CAN - lines for the cross-slope functionalities.

Leica Geosystems provides further packages.
Please contact your local Leica Geosystems distributor for more information.

Accessories

Tripods

GST20 Wooden Tripod
Heavy duty tripod with plumb bob, carrying strap and side clamp screws. Packaged length 110 cm (3.61ft), extendible to 180 cm (5.91ft), weight 6.4 kg (14.1lb)

Order No: 296 632

GST40, Wooden Tripod
Heavy tripod with rigid legs, suitable for precision levelling. Length 170 cm (5.58ft).

Order No: 328 422

LAT 195, Crankable Laser Tripod, 195 cm

Order No: 663 099

LAT 265, Crankable Laser Tripod, 265 cm

Order No: 663 100

Heavy Duty Elevator tripod, 149-330 cm

Order No: 733 803

GST05L, Aluminium Tripod
Light tripod with shoulder strap. Light-weight and long lasting making it suitable for levels and targets

Order No: 563 630

GST4, Tripod Star
To set up tripods on hard and slippery surfaces

Order No: 332 200

GST101, Wooden tripod
Heavy tripod with carrying straps and side clamp screws. A low cost alternative for TPS set-ups.

Order No: 726 831

GST103, Aluminium Tripod
with carrying strap and side clamp screws. A lowcost alternative for levels, lasers and targets.

Order No: 726 833

GST05, Wooden Tripod
Light tripod with water-tight plastic wrap for complete protection. Suitable for GPS and target stations with long set-up periods

Order No: 399 244

CET103 Elevator Tripod
Durable, rugged, indoor and outdoor aluminium tripod with attachable/detachable rubber feet against slippery surfaces. Working range 84 - 246 cm, telescopic column

1 **Order No: 768 033**

CTP104 Aluminum Tripod
Medium duty aluminium tripod with carrying strap and fast clamps

2 **Order No: 767 710**

CTP104D Dome-head Aluminum Tripod
with shoulder strap and fast clamps, medium weight. Suitable for levels

Order No: 767 711

CTP106 Aluminum Tripod
Light-weight with schoulder strap & side clamp screws

3 **Order No: 767 212**

Poles

GLS115, Mini Pole
Reflector pole with quick release clamp. Extendible to 2.15 m (7.05ft), weight 940 g (2.07lb).

Order No: 642 106

GLS111, Telescopic Pole
Heavy duty reflector pole with red/white markings for high visibility. Twist lock for secure tightening. Extendible to 2.60 m (8.53ft), weight 1.48 kg (3.26lb).

Order No: 667 309

GLS105, Telescopic Pole
Reflector pole with twist- and snap locks. With 1/4“ thread for mounting of GMP111 and CPR105 reflectors. Extendible to 2.11 m (6.92ft), weight 890 g (1.96lb).

Order No: 748 967

Chargers

Universal Charger / Power Supply
For Rugby 320SG/410DG/420DG
(incl. separate power cable)

Order No: 741 349

Universal Charger / Power Supply
with separate power cable for
Rugby 50/55/100/100LR/200/260SG/270SG/280DG

Order No: 727 165

GKL211, Battery Charger
Simple, low cost charger for GEB221 and GEB211 Li-Ion batteries. Includes car adapter cable.

Order No: 734 752

Car Adapter Cable
Rugby 320SG, 410DG, 420DG, 1 m

Order No: 738 242

Pigtail Cable, 15 ft.

Order No: 725 851

Reflectors

CPR111, BUILDER Prism

1 **Order No: 761 712**

CPR105, Double Sided Reflector

2 **Order No: 731 346**

1

2

Accessories

Batteries

NiMH Battery Pack
For Rugby 320SG, 410DG, 420DG
Order No: 739 855

GEB171, External NiMH Battery
High output battery for set-ups over long periods, 12V / 9.0Ah. With 5-pin charging socket.
Order No: 727 367

NiMH Battery Pack
for Rugby 50/55
Order No: 752 049

NiMH Battery Pack
for Rugby 100/100LR/200/260SG/270SG/280DG
Order No: 726 746

GEB211, Li-Ion Battery
High output battery for RX1200 controller, 7.4V / 2.2Ah.
Order No: 733 269

Cables

GEV52, Power Cable
For connection of GEB171 battery to instrument.
Order No: 409 678

GEV102, Data transfer cable
Lemo to RS232 connector to connect PC, laptop etc.
Order No: 563 625

GEV189, Data transfer cable
Lemo to USB connector (incl. USB electronics), 2.0 m. Connects TPS/DNA to PC for data transfer. PC driver and user manual included on CD.
Order No: 734 700

USB-Stick

MS1
USB-Stick, 1 GB, Industrial-Standard
Order No: 765 199

Other Laser Accessories

GLB10, Laser Glasses
Red lens glasses for improved visibility of the laser dot in bright rooms and outdoors up to 10-15 m
Order No: 723 777

Mounting Bracket for Piper 100/200
Order No: 746 159

Scope and Mount Assembly for Piper
Order No: 746 160

Foot, 6“ / 150 mm Piper
Order No: 746 161

Foot, 8“ / 200 mm Piper
Order No: 746 162

Foot, 9“ / 225 mm Piper
Order No: 746 163

Foot, 10“ / 250 mm Piper
Order No: 746 164

Foot, 12“ / 300 mm Piper
Order No: 746 165

Batter Board Clamp
For Rugby 55
Order No: 758 343

Staffs

CLR102, Telescopic Level Staff
5 m length, 4 sections, front side with E-graduation and back side with mm-graduation.

1 **Order No: 727 588**

Cut & Fill Rod, Tenths

Order No: 820 9210

CR08T
CR series fiberglass rod 8 ft tenths

Order No: 820 1529

CR13T
CR series fiberglass rod 13 ft tenths

Order No: 820 1532

CR16T
CR series fiberglass rod 16 ft tenths

Order No: 820 1534

Aluminum Telescoping Grade Rod, Tenths

Order No: 820 1129

GPLE2N, Nedo Invar Levelling Staff
2 m length, with circular bubble

Order No: 555 636

GPLE3N, Nedo Invar Levelling Staff
3 m length, with circular bubble

Order No: 555 637

GPLE3N, Nedo Invar Levelling Staff
3 m length, with circular bubble, with expansion coefficient certificate and length calibration certificate

Order No: 560 172

GWL92N, Industrial Levelling Staff
92 cm length, Cm- graduation, invar staff with circular bubble and 2 interchangeable bases

Order No: 559 615

GWL182N, Industrial Levelling Staff
Cm- graduation, 182 cm, invar staff with circular bubble and 2 interchangeable bases

Order No: 559 616

GLUS1, Ground Plate
For level staffs

Order No: 197 000

GSL3, Pair of Struts
For GPLE3N staff

Order No: 555 638

GLI20N, Nedo Staff Level
For BTL4/BTL5 levelling staffs

Order No: 555 639

1

Accessories

Rod Eye Receivers

The Rod Eye family offers solutions for any general construction and interior application, and is ideally matched to work with the Rugby laser family. They are construction-tough, designed to work in harsh, loud environments, and provide precise and repeatable accuracy.

The Rod Eye receivers emit three selectable beeper sounds (rapid, slow, and continuous), when high, low, and on-grade, respectively) to meet your job site conditions.

The Rod Eye Digital is the top of the line receiver with digital readout, 0.5 mm accuracy, and strobe rejection. The Digital has a 5 inch/127 mm pickup window which is the result of truly unique technology and provides the Digital with the best accuracy in the industry.

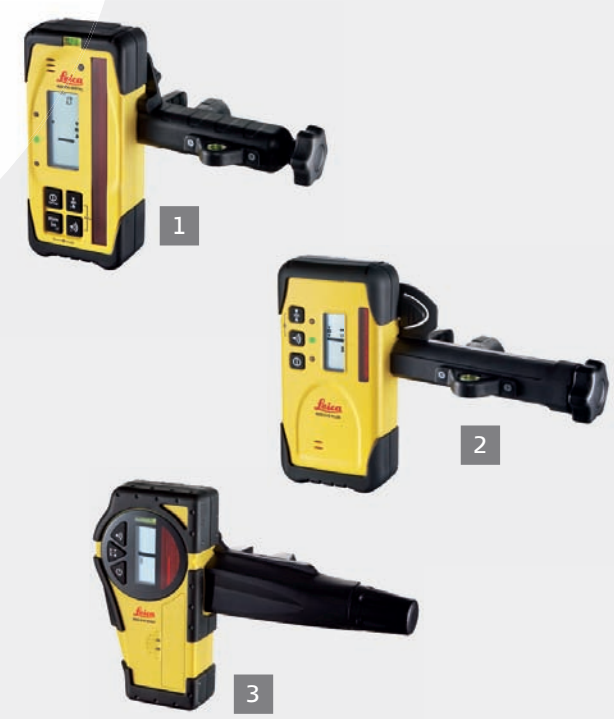
The Rod Eye Plus is a full featured receiver with proven performance in the field. Three bright LED's, nine channel arrow display and audio output provide the user with all the information needed to lock on the laser beam and get the job done right. Additionally, the double-beep beam finder, last beam strike memory, laser low battery indication and the reversible clamp for rectangular or oval rods put the Digital and Plus at the top of the list for today's contractor.

The Rod Eye Basic is a great receiver for those looking for value at a low price. Offering two accuracy settings, high/low audio output and a 500 ft/150 m range, the Rod Eye Basic is a quality receiver that is ready to work for you.

Rod Eye Digital with Bracket
Digital technology that expands your options
Order No: 769 809

Rod Eye Plus with Bracket
Exceptional quality - great features
Order No: 769 810

Rod Eye Basic with Bracket
Value for all general construction applications
Order No: 769 811



Receivers at a glance	Rod Eye Digital	Rod Eye Plus	Rod Eye Basic
Working Radius	1500 ft/450 m	1500 ft/450 m	500 ft/150 m
Detection Height	5 inch/ 127 mm	2 inch/50 mm	1.4 inch/36 mm
Detection Accuracies	Five	Three	Two
Audio Volumes	Three	Two	Two
Arrow Display	Twenty-one channels	Nine channels	Five channels
LED Display	Yes, five channels	Yes, five channels	No
Warranty	Three years	Two years	One year

Leica Geosystems - Nothing is really closer

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Laser class 3R in accordance with IEC 60825-1 and EN 60825-1	• Distance meter (RL Mode)	• Distance meter (Red Dot)	•		•		• stationary beam		
Laser class 2 in accordance with IEC 60825-1 and EN 60825-1	• Laser plummet	• Laser plummet		•		•	• rotating/ scanning		•
Laser class 1 in accordance with IEC 60825-1 and EN 60825-1	• Distance meter (IR, ATR, PS Mode)							•	

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